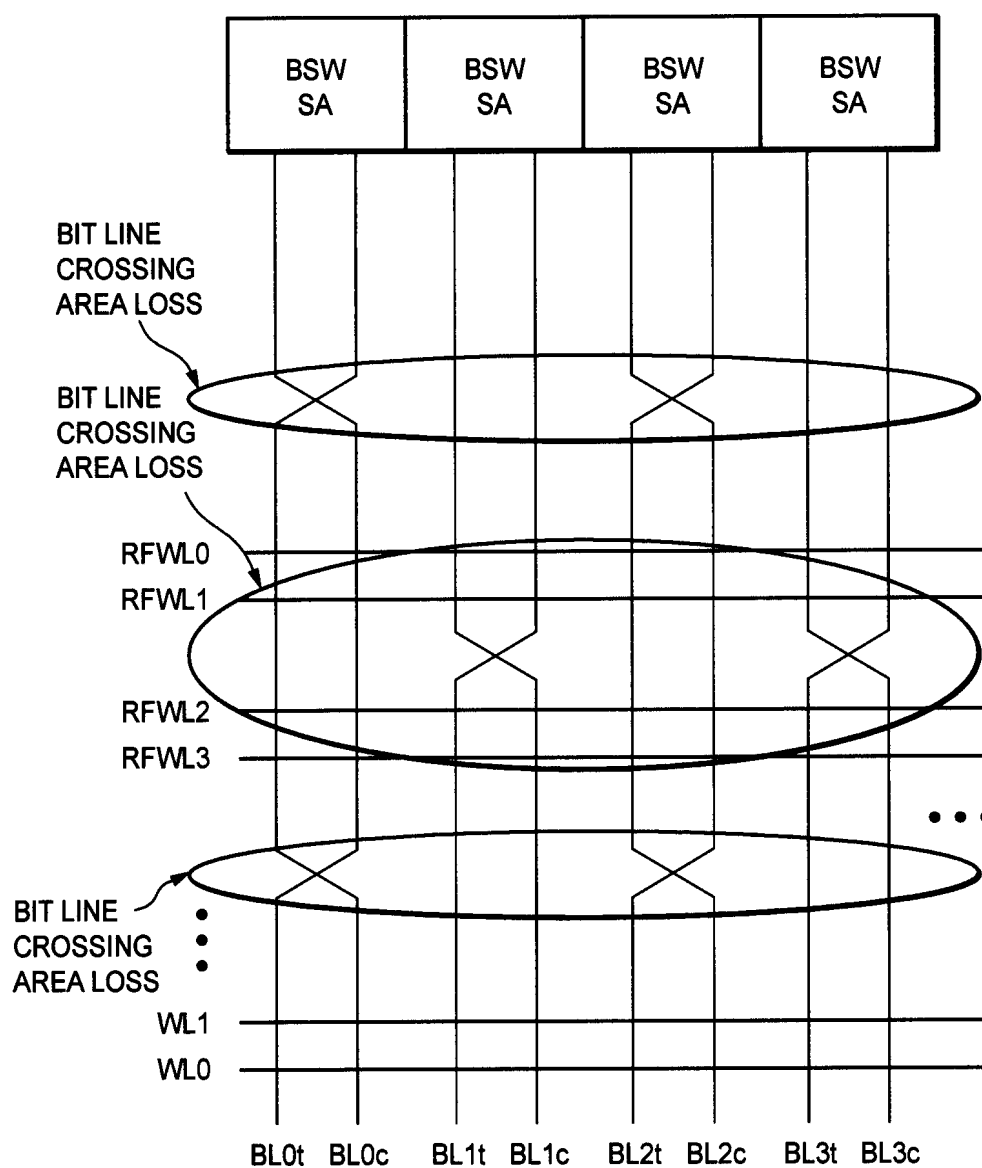


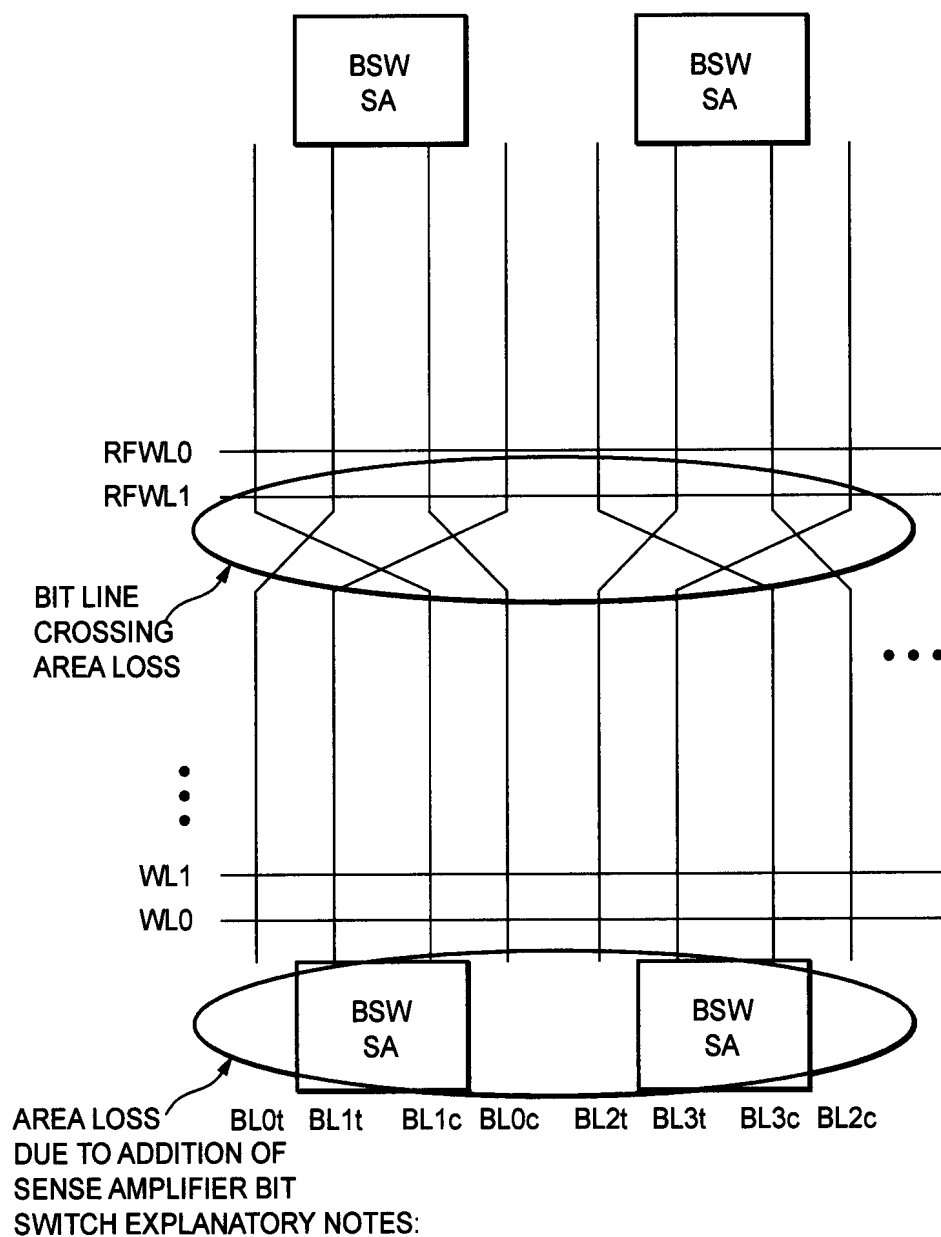
FIG.1



EXPLANATORY NOTES:

BSW: BIT SWITCH
 SA: SENSE AMPLIFIER
 BL: BIT LINE
 WL: WORD LINE
 RFWL: REFERENCE WORD LINE

FIG.2



EXPLANATORY NOTES:

BSW: BIT SWITCH

SA: SENSE AMPLIFIER

BL: BIT LINE

WL: WORD LINE

RFWL: REFERENCE WORD LINE

FIG.3

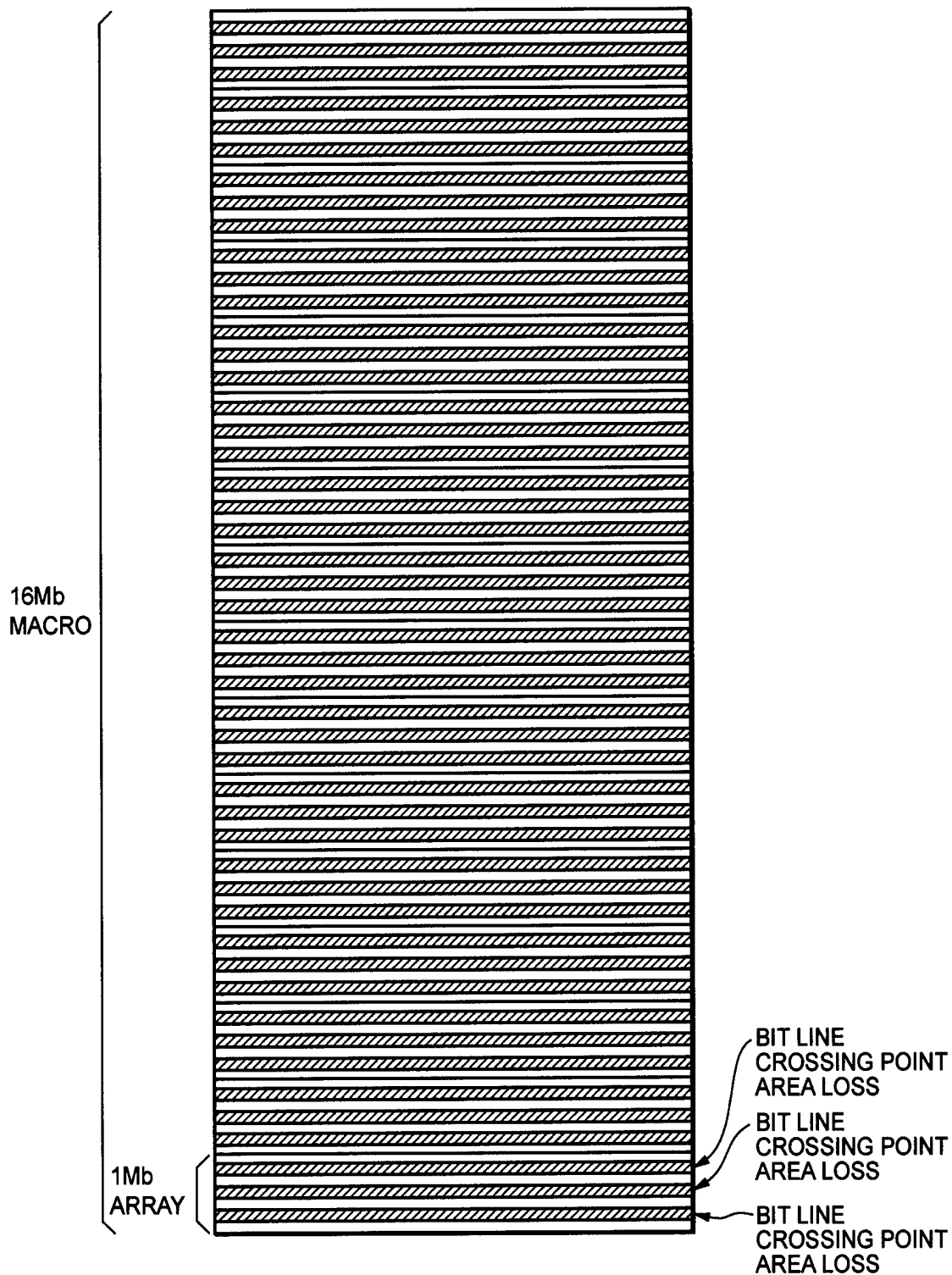


FIG.4

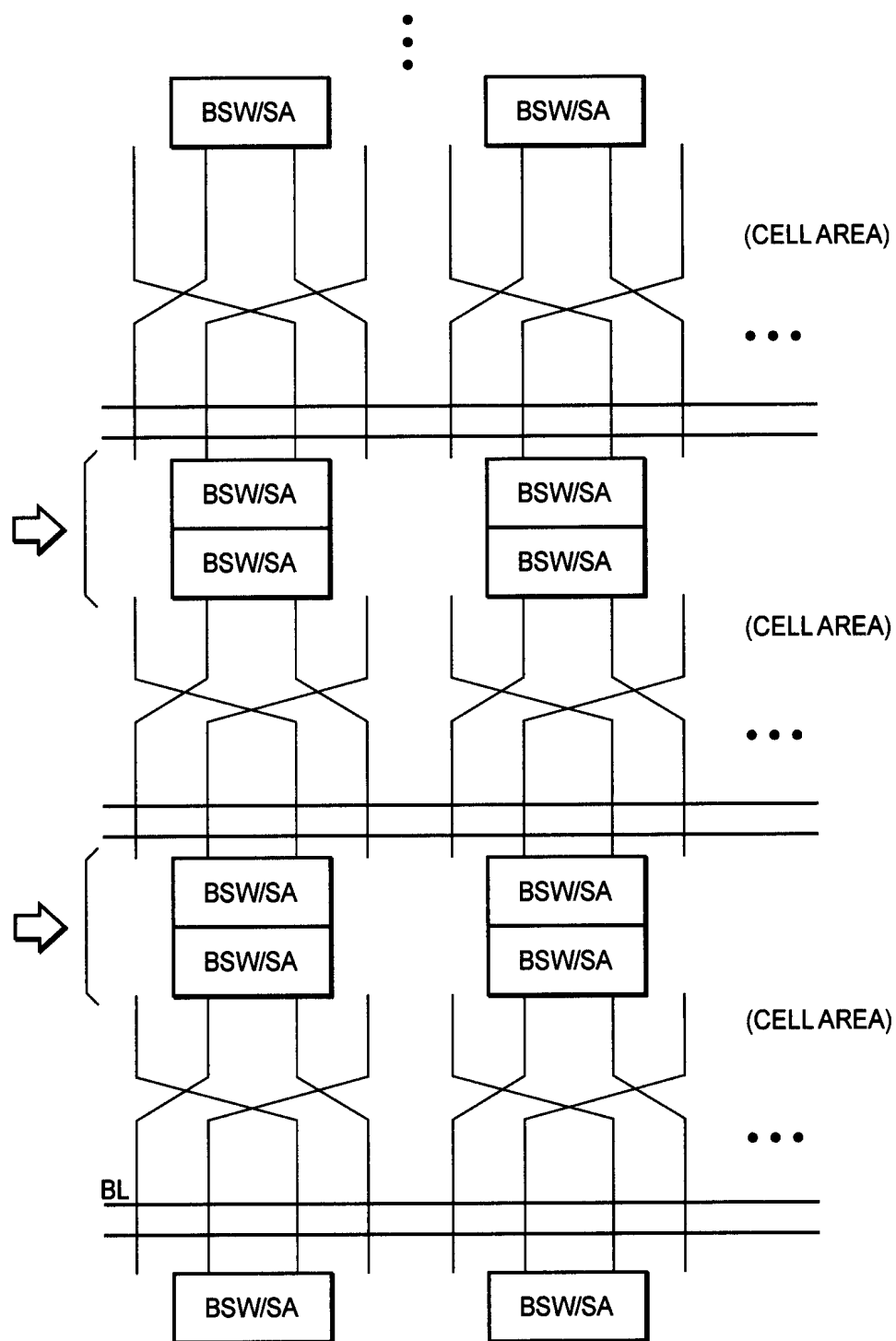


FIG.5

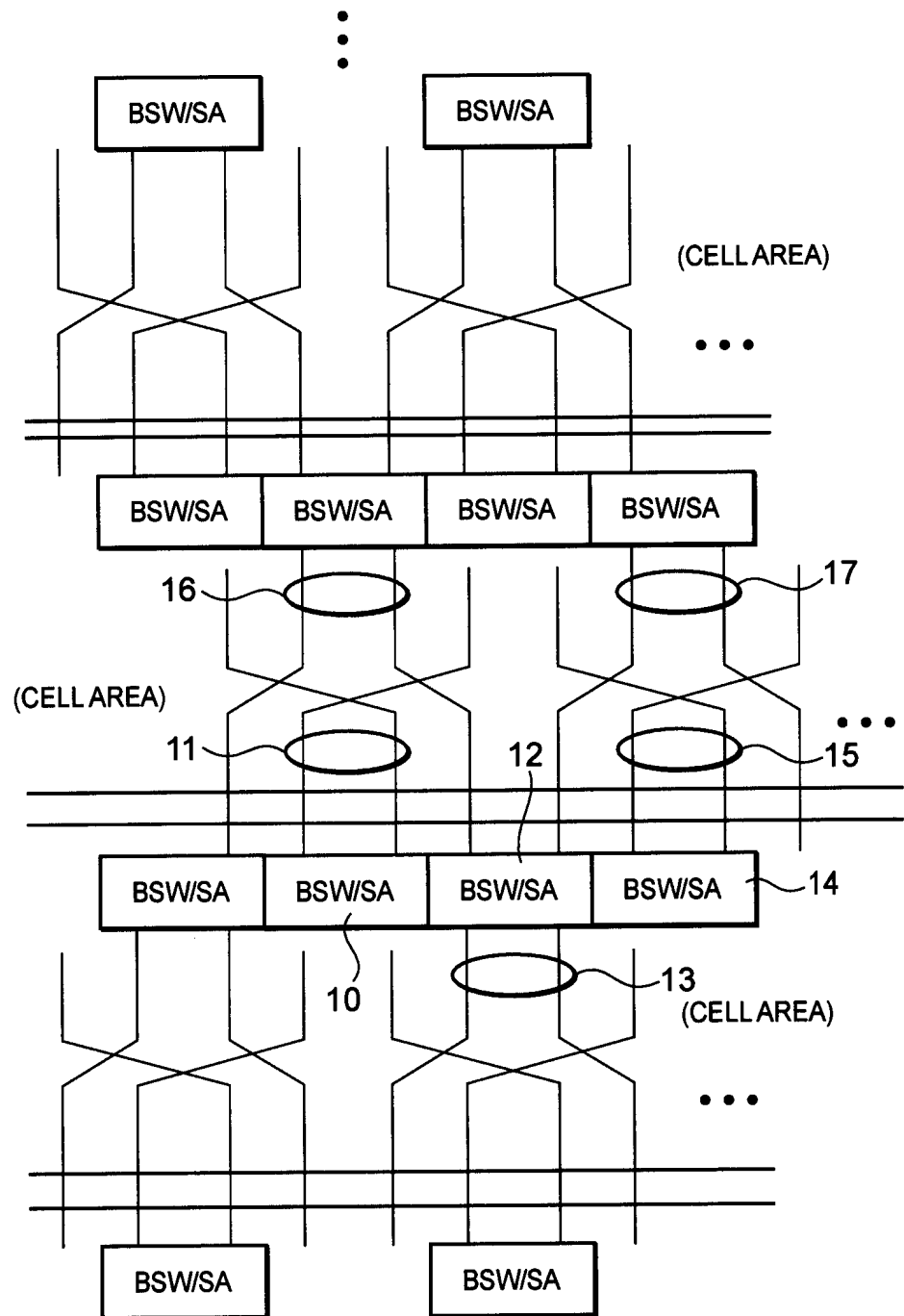


FIG.6

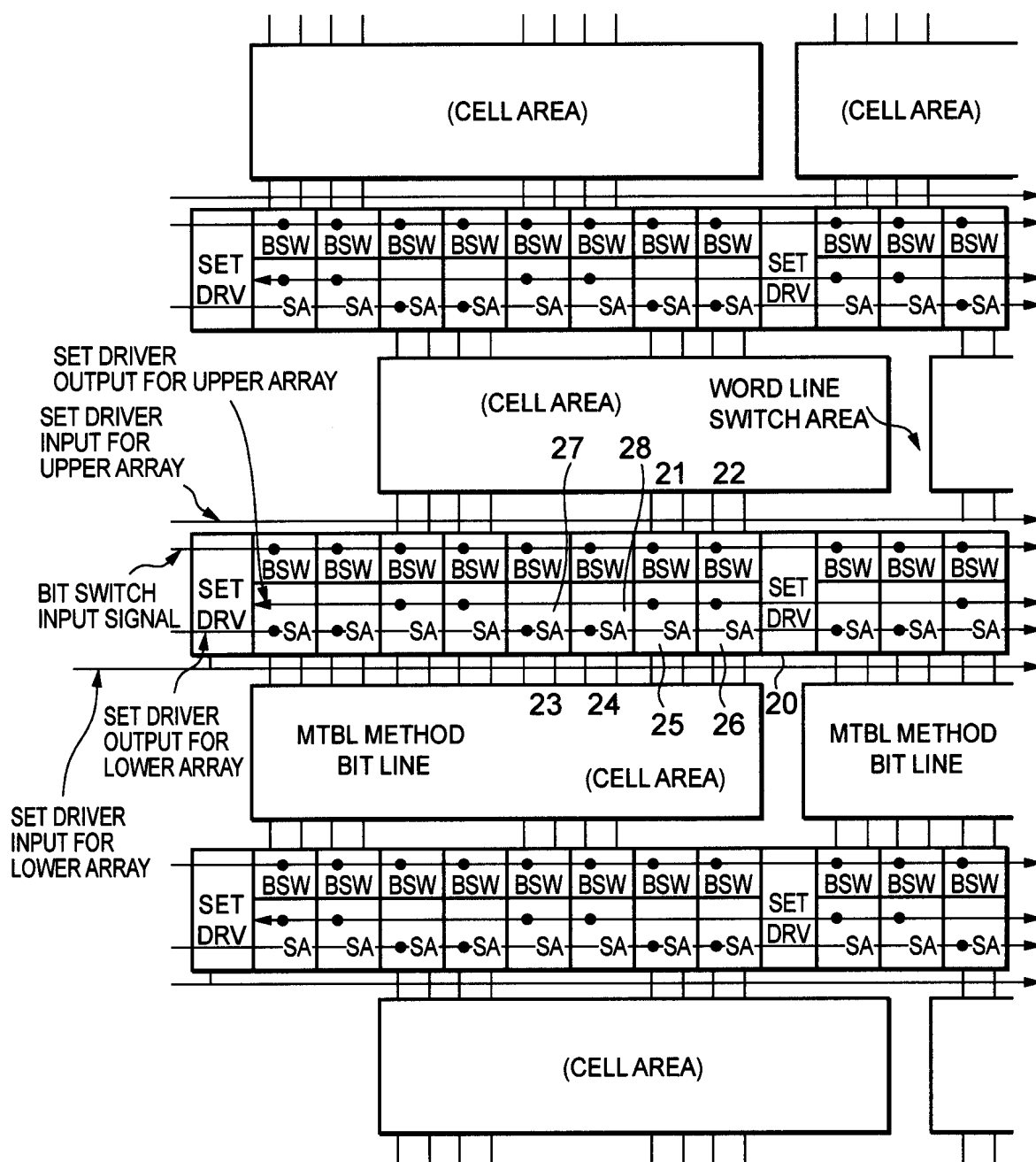


FIG. 7

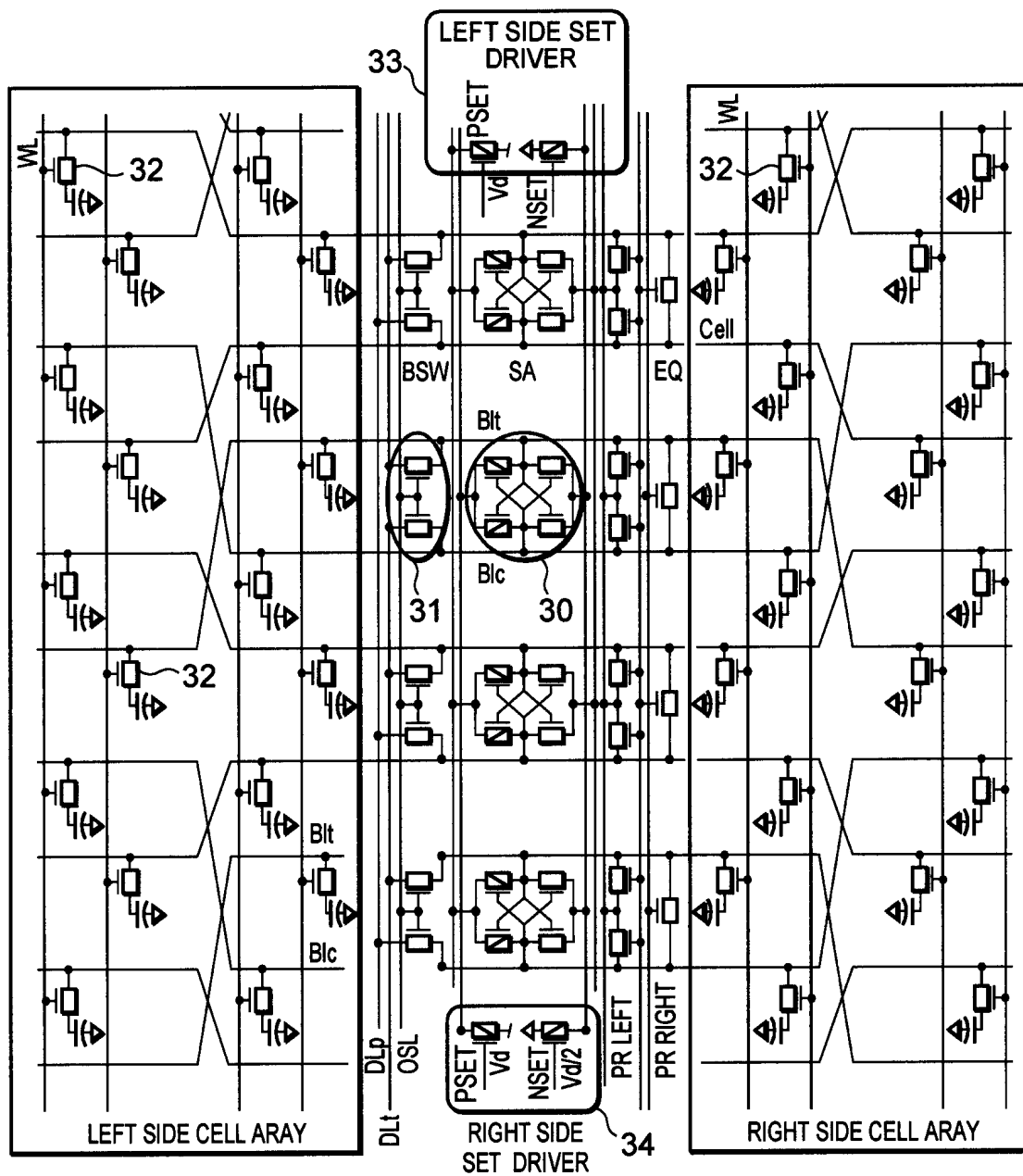


FIG.8

	ARRAY CONFIGURATION IN PRESENT INVENTION	ARRAY CONFIGURATION IN PRIOR ART TBL METHOD	ARRAY CONFIGURATION IN PRIOR ART MTBL METHOD
HEIGHT OF SENSE AMPLIFIER AND BIT SWITCH PER ARRAY	35 MICRO METERS	35 MICRO METERS	70 MICRO METERS
ACTUAL AREA PER ARRAY (HEIGHT OF ALL WORD LINES)	239.2 MICRO METERS	239.2 MICRO METERS	239.2 MICRO METERS
AREA LOSS PORTION PER ARRAY (HEIGHT OF BIT LINE CROSSING AND RFWL AREA)	9.2 MACRO METERS	18.4 MACRO METERS	9.2 MACRO METERS
HEIGHT OF 16 Mb MACRO (16 ARRAYS VERTICALLY CUMULATED)	4569.4 MICRO METERS	4681.6 MICRO METERS	5094.4 MICRO METERS